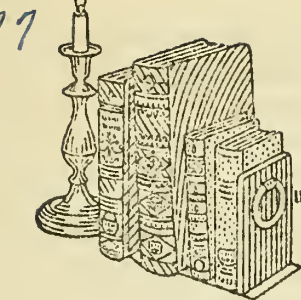


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Vol. 11, No. 2.

August 1952.

"Libraries, then, are more than stockpiles. They are more than repositories of scientific information.... They are truly communication centers, with transmission lines to carry ideas and knowledge to the scientist and the engineer..."

Melvin J. Voigt, in The Scientific Monthly, July 1952

NEW BOOKS IN THE LIBRARY

AMERICAN WILDLIFE & PLANTS, by A. C. Martin, H. S. Zim, and A. L. Nelson.

McGraw-Hill, 1951. 500p. 60 M36

A guide to wildlife food habits: the use of trees, shrubs, weeds, and herbs by birds and mammals of the United States. This book "has been planned not only for wildlife technicians, sportsmen, naturalists, bird students, and all others directly interested in wildlife, but also for foresters, landscape gardeners, botanists, and additional groups concerned with the vegetation upon which our country's wildlife depend. ...Part I is introductory. It aims to provide orientation and interpretation. ...Part II treats the wildlife of the country group by group and gives data on their foods (particularly plant parts), ranges, habits, and economics.... Part III turns the focus on plants. It denotes the value of different genera of trees, shrubs, weeds, aquatics, and cultivated crops to various kinds of wildlife in different parts of the country." From the Preface.

THE DESIGN AND ANALYSIS OF EXPERIMENTS, By Oscar Kempthorne. Wiley, 1952. 631p.

251 K32

"Professor Kempthorne has written an unusually complete and readable review of the entire field of experimental designs in his book. ... The early chapters contain a survey of the general field of statistics, with particular emphasis on least squares and the general linear hypothesis. From here the author moves through the simplest linear models, problems of randomization, additivity, transformations, covariance, and components of variance. The two basic designs, the randomized block and the Latin square, are then explained in great detail. ... The chapters on factorial designs are excellent. Beginning with the simplest forms, the reader is taken in gradual steps through to the general p^n factorial systems and mixed factorial designs. Of particular merit is the discussion on confounding, with its very neat notational methods. Lattice designs are exhaustively treated. The construction and analysis of balanced and partially balanced incomplete block designs are also discussed. The text includes a chapter on the problems of plot size and shape, another on power and the

analysis of variance, with an illustration of the use of Tang's Tables (which are included in the appendix), and other chapters on long-term experiments and combining groups of experiments." From a review by J. S. Hunter in The Scientific Monthly, August 1952.

FIELD CROP INSECTS, by F. A. Fenton. Macmillan, 1952. 405p. 423 F362

"The two opposing forces controlling insect abundance and distribution are discussed in some detail because their interaction is of the utmost importance in determining whether or not a species becomes a problem and why it is restricted to certain geographic areas. A chapter is devoted to the basic principles of insect biology which is later discussed in considerable detail for the insect species selected as representative of certain types causing plant injury. Insecticides, methods of their application, and kinds of crop sprayers and dusters are considered in three chapters. ... Control by physical, cultural, and biological means has been emphasized, and it is felt that the student should know something about plant quarantines and the large scale insect control campaigns. In considering insect types selected, emphasis has been placed upon feeding habits, injury to crops, foods, the life cycle, and control." From the Preface.

THE FORMATION OF VEGETABLE MOLD THROUGH THE ACTION OF EARTHWORMS. Organic Gardening Library No. 25, 64p. 1949. 56.12 D25A 1949

This booklet is a condensation of Charles Darwin's "Vegetable Mould and Earthworms" together with related articles by Sir Albert Howard, Dr. Ehenfried Pfeiffer, J. I. Rodale, and other authorities.

FOURTH INTERNATIONAL CONGRESS OF SOIL SCIENCE. TRANSACTIONS, 1950. 4 vols. Amsterdam, Hoitsema Brothers. 56.09 In844

Volumes one and two contain general lectures and sectional papers; volume three contains sectional papers; and volume four is made up of discussions of the technical papers presented in the preceding volumes, reports of the sessions, and general information. Selections from the contents of each volume are presented below.

Vol. I. Diagnosis of soil fertility by visual symptoms of crops- T. Wallace (England)

Modern soil conservation--H. H. Bennett (U. S.)

The classification and use and misuse of land--L. D. Stamp (England)

Movement of moisture in unsaturated soils--E. C. Childs and N. C. George (England)

Some soil organic-matter relationships--F. E. Bear (U. S.)

Soil fauna and its importance in soil type formation--C. H. Bornebusch (Denmark)

Plant analysis as a means of evaluation of chemical soil tests--F. Van Der Paauw (Netherlands)

Development of aerial topdressing of grassland as a conservation tool to minimise run-off--D. A. Campbell (New Zealand)

Productivity ratings and their importance in the soil survey report--J. Mitchell (Canada)

Vol. II. Soil structure--R. Bradfield (U. S.)

Soil moisture and evaporation--R. K. Schofield (England)

Root production by agricultural crops on arable land and on grassland as a source of organic matter in the soil--M. A. J. Goede-weagen and J. J. Schuurman (Netherlands)

The possibility of exact regulation of the depth of drainage--W. C. Visser (Netherlands)

The determination of the cationic exchange capacity of the inorganic soil particles--H. W. Van Der Marel (Netherlands)

An electrical method of sampling soil for earthworms--J. Doeksen (Netherlands)

Vol. III. Rate of build-up of water-stable aggregates and soil crumb structure--A. J. Low (England)

A new conception of land tillage, settlement and drainage--L. Marimpieri (Italy)

A study of methods for evaluating changes in organic matter undergoing decomposition in the soil--R. L. Hausenbuiller (U. S.)

A rapid and accurate electrotitrimetric method for determining the chloride content of soils, water and plant materials--R. J. Best (Australia)

Vol. IV. Reports of discussion and conclusions of the sections

Short history of the Fourth International Congress of Soil Science Meeting in honour of Dr. D. J. Hissink

The reconstruction of the International Society of Soil Science

Publications issued on the occasion of the Congress

List of official delegates and members

HOW TO MAKE YOUR FARM PAY, by C. C. Malone. Iowa State College Press, 1950. 371p. 281.005 M29

Though the sub-title of this book is A Practical Guide for Midwest Farm Operators, one does not have to live in the midwest to profit from reading it. Such chapters as Money-Making--The Management Problem, Laying Out the Cropping System, Fitting Livestock Into the Farm Plan, Putting the Farm Plan Together, Checking Up on Yourself, and Around the Family Table (planning) are applicable anywhere.

RELATION OF SOIL CONTENT TO HUMAN LONGEVITY, by T. J. Brooks and T. J. Brooks, Jr. Fla. Dept. of Agr., 1949. 116p. 56.6 B79

A discussion of balanced soils, balanced foods, and balanced health by the Assistant Commissioner of Agriculture of Florida and his son, the Chief Physician at the Florida State University. The book is based on the reports of experiment stations, soil scientists, dietitians and physicians, educators, and individual experimenters.

SELECTED BULLETINS

Agricultural Engineering

"Adequate Farm Wiring Systems." Cornell Ext. B. 849, 68p. 1952. 275.29 N48E

"Arranging and Adjusting Power Sprayer Booms and Nozzles for Controlling Tomato Diseases." Md. Ext. Serv. Fact Sheet. 1951. 275.29 M36Fa 26

"Farm Reservoirs: Suggestions on Planning and Construction." Ky. Ext. Serv. Leaflet 129. 1951. 275.29 K415Le 129

"Hydraulic Design of the Box Inlet Drop Spillway." SCS-TP-106, 53p. 1951. 1.96 Ad6Tp 106

"Planning and Equipping the Farm Shop." Iowa Ext. Serv. Pam/ 170, 16p. 1951. 275.29 Io9Pa 170

"A Simple Wind Guage for Use in Agricultural Spraying." Tex. Agr. Expt. Sta. Prog. Rpt. 1466, 4p. 1952. 100 T31P 1466

"Soldering." Cornell Ext.B. 850, 16p. 1952. 275.29 N48E 850

Agronomy

"Broomcorn Production in South Texas." Tex. Agr. Expt. Sta. Prog. Rpt. 1468, 4p. 100 T31P 1468

"Effect of 2,4,5-T on Young Cotton Plants." Tex. Agr. Expt. Sta. Prog. Rpt. 1464, 4p. 1952. 100 T31P 1464

"The Establishment of Common Bahia Grass from Seed." Ga. Coastal Plain Expt. Sta. Mimeo. Paper 6, 3p. Revised 1952. 100 G292M 6

"Hemp." USDA Farmers' B. 1935, 16p. Rev. 1952. 1 Ag84F 1935

"Lespedeza." Miss. Ext. Pub. 172, 1951. 275.29 M68 172

"Lespedeza Sericea." Miss. Ext. Pub. 179. 1951. 275.29 M68 179

"Natob--A New Bush Lespedeza for Soil Conservation." USDA Cir. 900, 10p/ 1952. 1 Ag84C 900

"Red Clover." Miss. Ext. Pub. 178. 1951. 275.29 M68 178

"Rice Production in the Southern States." USDA Farmers' B. 2043, 36p. 1952. 1 Ag84F 2043

"Rose Clover: A New Winter Legume." Calif. Agr. Expt. Sta. C. 407, 12p. 1952. 100 C12S 407

"Rough Estimates on your Corn Yields." N. C. Ext. Folder 87. 1952. 275.29 - N811Ex 87

Describes a simple procedure.

"Ryegrass." Miss. Ext. Pub. 199. 1951. 275.29 M68 199

"Sudan or Millet for Summer Grazing." Miss. Ext. Pub. 175. 1951. 275.29 M68

Cattle

"Alfalfa and Bluegrass Silages as Roughages for Fattening Steers in Drylot." Ky. Agr. Expt. Sta. B. 579, 18p. 1951. 100 K41B

"Brucellosis With A Control Plant for Beef Cattle." Mo. Agr. Expt. Sta. B. 575, 12p. 1952. 100 M693 575

"Common, Sweet and Tift Sudan for Pasturage." Tex. Agr. Expt. Sta. Prog. Rpt. 1467, 2p. 1952. 100 T31P 1467

"Digestible Nutrient Contents of Corn, Bluegrass, Alfalfa, Ladino, Fescue, and Soybean Silages for Steers." Ky. Agr. Expt. Sta. B. 573, 19p. 1951. 100 K41B 573

"Ergot Poisoning in Cattle." Fla. Agr. Expt. Sta. C. S-43, 6p. 1952. 100 F66C

"Feed Reserves - Drouth Insurance for Beef Producers." Tex. Agr. Expt. Sta. Prog. Rpt. 1471, 5p. 1952. 100 T31P 1471

"Tropical Beef Cattle Industry in the Western Hemisphere." USDA Bibliographical B. 19, 157p. 1952. 1 Ag84Bi 19

Most of the literature listed in this bibliography appeared between 1940 and 1950.

Fertilizer

"Know Your Fertilizers." Miss. Ext. L. 96. 1950. 275.29 M68Ex

"Liquid Nitrogen Fertilizer." N. C. Ext. Cir. 369. 1952. 275.29 N811C 369

Forestry

"The Care and Use of the Bow Saw." N. C. Ext. Folder 86. 1952. 275.29 N811Ex

"Comparative Stumpage Prices for Small Pine Saw Timber and Pulpwood." Southeastern Forest Expt. Sta. Sta. Paper 16, 7p. 1952. 1.9622 S4St22

"Directory of Forest Genetic Activities in the South." Southeastern Forest Expt. Sta. Sta. Paper 17, 17p. 1952. 1.9622 S4St22

"Dividends from Christmas Trees." West. Va. Ext. Misc. Pub. 10. 1951. 275.29 W522 10

"Effect of Fire on Forest Soils in the Pine Barren Region of New Jersey." Yale Univ. School of Forestry B. 57, 50p. 1952. 99.9 Y1B

"Eucalyptus Serves Many Purposes." Calif. Ext. C. 1950 275.29 C12C

"Forest Insects of the Southeast: With Special Reference to Species Occurring in the Piedmont Plateau of North Carolina." Duke Univ. School of Forestry B. 14, 168p. 99.9 D88 14

"How to Use the Log and Tree Scale Stick." N. C. Ext. Folder 85. 1951. 275.29 N811Ex 85

"Kill Nuisance Hardwoods with Ammate." Va. Ext. C. 500, 4p. 1951. 275.29 V81C 500

"Young Pine Management." Proceedings of First Annual Symposium, School of Forestry, Louisiana State University. March 13-14, 1952. 120p.

Partial Contents: "Thirty-Six Years of Thinning Research with Loblolly Pine," by W.F. Mann, Jr.; "Plotless Timber Cruising," by L. R. Grosenbaugh; "The Effect of Early Thinning on the Growth and Yield of Young Southern Pine Plantations," by K. W. Livingston; "Thinning Methods in Planted Slash Pine," by A. B. Crow; "Financial Maturity - A Guide in Thinning," by W. E. Bond; "The Problems of a Forest Manager During the Early Stages of Placing a Property Under Management," by A. W. Nelson.

Homemaking

"Better Home Lighting." Okla. Ext. Serv. C. 439, 15p. 275.29 Ok41C 439

"Cooking Oklahoma Fish." Okla. Ext. Serv. C. 568, 275.29 Ok41C 568

"The Egg and You ." Okla. Ext. C. 455. 275.29 Ok41C 455

"Farm Home Business Centers." Wash. Ext. B. 459, 15p. 1952. 275.29 W27P

"Food after Fifty." Vt. Ext. Brieflet 855, 6p. 275.29 V59E 855

"Supper Patterns." Vt. Ext. Brieflet, 12p. 275.29 V59E 861

"Food for the Preschool Child." Vt. Ext. Brieflet 854. 275.29 V59E 854

"Furniture Arrangement." Purdue Ext. B. 366, 23p. 1952. 275.29 In62E 366

"Keep Your Furniture at Its Best." Vt. Ext. Brieflet 867. 275.29 V59E 867

"Making Family Meals Attractive." West. Va. Good Living Series 19, No. 6. 275.29 W522

"Making Homemaking a Business." Vt. Ext. Brieflet 852, 4p. 275.29 V59E 852
 "Pictures for the Home." West Va. Ext. Good Living Series 19, No. 7, 6p.
 275.29 W522

"Pictures in Home Decoration." Vt. Ext. Brieflet 856, 6p. 275.29 V59E 856

Horticulture

"How To Feed A Tree." Vt. Ext. Brieflet 862, 4p. 275.29 V59E 862

"Pruning Ornamental Trees, Shrubs, and Vines." Calif. Ext. Ser. C. 183, 43p.
 1952. 275.29 C12C 183

"Shrubs for Year-Round Color." Tex. Ext.C. 253, 8p. 1951. 275.29 T312C 253

Livestock

"Feeding and Breeding Tests With Sheep, Swine, and Beef Cattle." Okla. Agr.
 Expt. Sta. Misc. Pub. MP-27, 105p. 1952. 100 Ok4Mp 27

Partial Contents: Creep-Feeding Calves Which Are To Be Sold at Weaning,
 Influence of Breed of Bull on the Calving Performance of Two-year-old Hereford
 Heifers, The Influence of Minerals on the Digestion of Low-Quality Roughage,
 The Effect of High Levels of Manganese Intake on the Performance of Beef Cows,
 Supplements for Low-protein Swine Rations, Phosphorus Utilization by Cattle and
 Sheep, The Value of 20-, 20-, and 40-Percent Protein Supplements for Wintering
 Heifer Calves, Methods of Wintering Yearling Steers.

"National Institute of Animal Agriculture. Proceedings." Purdue Univ., 1951.
 108p.

Partial Contents: "How Good is Our Diet," by R. M. Leverton; "Animal
 Agriculture Pays," by J. W. Burch; "Animal Agriculture and the Soil," by F. E.
 Bear; "Feed Utilization by Livestock and Poultry," by J. H. Hilton; "Improving
 the Utilization of Feed by Swine and Beef Cattle," by W. M. Beeson; "The Sig-
 nificance of Animal Products to Human Nutrition," by H. Pollack.

Pastures

"Costs and Methods of Pasture Establishment and Maintenance." Fla. Agr. Expt.
 Sta. C. S-33, 8p. 1951. 100 F66C

"Harvesting Pasture Seed." Miss. Ext. Pub. 188. 1951. 275.29 M68

"Improving the World's Grasslands." FAO, 1951. 147p. 28 F773 16

"Oats in Pastures." Miss. Ext. Pub. 187. 1951. 275.29 M68 187

"Pasture Management." Miss. Ext. Pub. 233. 1952. 275.29 M68 233

"Pastures for Georgia." Ga. Ext. B. 573, 40p. 1952. 275.29 G29B 573

Plant Diseases & Pests

"The Pea Aphid on Peas and Methods for Its Control." USDA Farmers' B. 1945,
 13p. Rev. 1952. 1 Ag84F 1945

"Small Grain Diseases." N. C. Ext. C. 347, 30p. 1952. 275.29 N811C 347

"Some Scale Insects Attacking Grasses in Texas." Tex. Agr. Expt. Sta. Prog.
 Rpt. 1461, 5p. 1952. 100 T31P 1461

"Southern Corn Rootworm Control." Tex. Agr. Expt. Sta. Prog. Rpt. 1473, 2p.
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Sheep

- "Commercial Family-Operated Sheep Ranches, Range Livestock Area, Northern Great Plains, 1930-50: Organization, Production Practices, Costs, and Returns." Mont. Agr. Expt. Sta. B. 478, 94p. 1951. 100 M76B 478
- "Feed Reserves For Wintering Ewes on Central Texas Farms." Tex. Agr. Expt. Sta. Prog. Rpt. 1470, 4p. 1952. 100 T31P
- "Raising Sheep in North Carolina." N. C. Ext. C. 356, 15p. 1952. 275.29 N811C 356
- "Sheep Management for New Mexico Farms." N. Mex. Ext. C. 236. 1952. 275.29 N463E 236

Soil & Soil Conservation

- "Contour Cultivation." Ky. Ext. L. 130. 1952. 275.29 K415Le 130
- "Fellow and the Wind Erosion Hazard." SCS-TP-111, 9p. 1952. 1.96 Ad6Tp 111
- "From the Dust of the Earth." USDA Agr. Inf. B. 78, 15p. 1952. 1 Ag84Ab 78
- "Good Rotations are Like More Land." Minn. Ext. Folder 152. 1951. 275.29 M66Ex
- "Leaching of Fertilizer Phosphorus in Acid Sandy Soils as Affected by Lime." Fla. Agr. Expt. Sta. C. S-32, 7p. 1951. 100 F66C S-32
- "Phosphate Facts." Minn. Ext. Soil Series No. 34, 15p. 275.29 M66So 34
- "Soil Aggregate Formation." SCS*TP-110, 23p. 1952. 1.96 Ad6Tp 110
- "Soil Is Like A Bank Account--Keep Your Account Balanced!" Ill. Ext. AE2808. 13p. 1951. 275.29 IL62P 2808

Swine

- "Controlling Lungworms of Swine." USDA Leaflet 118, 5p. Revised 1952. 1 Ag84L 118
- "Internal Parasites of Swine." USDA Farmers' B. 1787, 41p. Rev. 1952. 1 Ag84F
- "Sodium Fluoride for Worming Hogs." N. C. Ext. Folder 84. 1951. 275.29 N811Ex
- "Swine Production." USDA Farmers' B. 1437, 38p. Rev. 1952. 1 Ag84F 1437

Miscellany

- "Agriculture's Capacity to Produce: Possibilities Under Specified Conditions." USDA Inf. B. 88, 62p. 1952. 1 Ag84Ab 88
- "Beginning Beekeeping." Fla. Ext. B. 151, 31p. 1952. 275.29 F66 151
- "The Chemical Analysis of Grass, Silage, Hay, Straw, Concentrates, and Miscellaneous Feedstuffs." Mo. Agr. Expt. Sta. B. 579, 13p. 1952. 100 M693 579
- "Ecological Studies in a Midwestern Range: The Vegetation and Effects of Cattle on Its Composition and Distribution." Nebr. Conservation B. 31, 82p. 1951. 279.9 N272B 31
- "Equitable Tenancy Arrangements in the United States." Ill. Ext. AE2835, 11p. 1951. 275.29 IL62P 2835
- "The Family Farm's Future: You Can Help Determine It." USDA PA 168, 1951. 1 Ag84Pro 168

- "Farm Drainage in 10 Easy Lessons." Purdue Ext. B. 269, 16p. 1950. 275.29
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- "Grape Rootstocks for Southwest Texas." Tex. Agr. Expt. Sta. Prog. Rpt. 1475,
10p. 1952. 100 T31P 1475
- "How To Avoid and Treat Electrical Shock." Ill. Ext. AE2793, 5p. 1951. 275.29
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- "In-Place Cleaning of Steel Sanitary Milk Processing Lines." Tex. Agr. Expt.
Sta. Prog. Rpt. 1472, 5p. 1952. 100 T31P 1472
- "Principles of Inventory and Risk Management." Ill. Ext. AE2831, 8p. 1951.
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- "Relation of Sedimentation to Accelerated Erosion in the Missouri River Basin."
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- "Rental Arrangements in the Coastal Plain." N. C. Ext. C. 370, 19p. 1952.
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- "7 Steps to Plenty." USDA PA-199, 1952. 1 Ag84Pro 199
- "Turkey Raising." USDA Farmers' B. 1409, 78p. 1952 rev. 1 Ag84F 1409
- "Soil Treatment an Aid in Termite Control." USDA L. 324. Rev. 1952. 1 Ag84L
- "Surface Irrigation Development." Okla. Ext. C. 571, 16p. 275.29 Ok41C 571
- "The Use of Fire Retardants in a Penta Fence Post Preservative." Idaho, For-
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- "Weeds: A South Carolina Handbook." S. C. Ext. B. 113, 87p. 1952.
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- "Wood Chips for the Land." USDA Leaflet 323, 8p. 1952. 1 Ag84L 323

